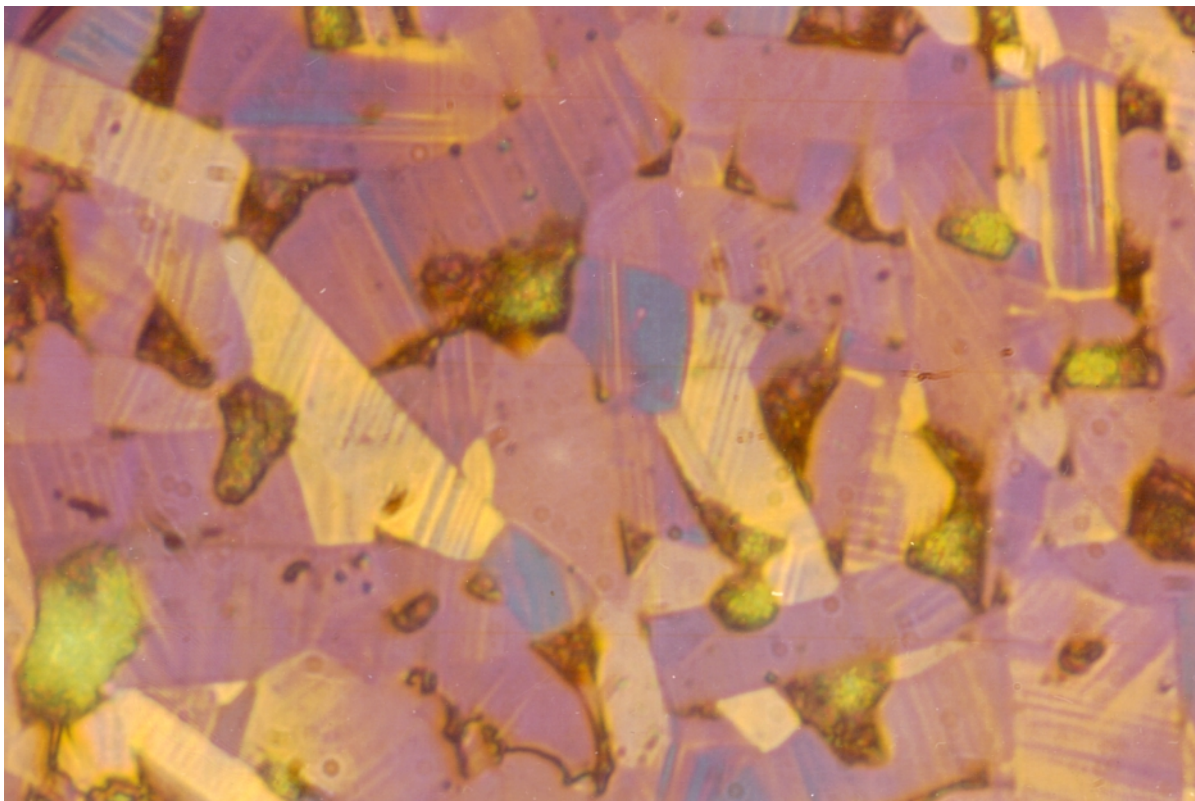


SUPERCONDUCTING MATERIALS



Optical micrograph showing the microstructure of high-T_c metal oxide superconductor YBaCuO, observed in reflected polarized light

The Naval Research Laboratory (NRL) has established a comprehensive program in high-temperature superconductivity (HTS). The program is based on a basic research effort to provide the scientific basis for understanding and controlling the behavior and properties of the newly discovered class of HTS materials. The program includes a strong experimental effort to fabricate and measure the properties of these materials and a major theoretical effort to develop fundamental theories relating processing and fabricating procedures to atomic and microstructural characteristics.

Point of Contact

Naval Research Laboratory
4555 Overlook Avenue, SW • Washington, DC 20375-5320

Dr. D. Gubser • Materials Science and Technology Division • (202) 767-2926
e-mail • gubser@anvil.nrl.navy.mil